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## UTILITY PATENT APPLICATION

| Attorney Docket No.    |                               | TI-36111     |                        |        |
|------------------------|-------------------------------|--------------|------------------------|--------|
| First N                | lamed Inventor or Application | n Identifier | Weibiao Zhang, et al.  |        |
| Title                  | Gain Control Circuits         | for Voltage  | Controlled Oscillators | 3. PTO |
| Express Mail Label No. |                               | EV 3333      | 08407 US               | 200    |

| (Only for new nonprovisional applications under 37 CFR 1.53(b))   |                            |   |   |  |   |                     |  |  |  |  |  |
|---|----------------------------|---|---|--|---|---------------------|--|--|--|--|--|
|   | Express M                  |   |   |  | 308407 US   |                     |  |  |  |  |  |
| APPLICATION ELEMENTS See MPEP Chapter 600 concerning utility patent application co  | ntents                     | ADDRESS 10. Commis<br>P.O. Box  |   |  | Stop Patent Ap<br>missioner for F<br>Box 1450<br>andria, VA 223   | 13-1450 E           |  |  |  |  |  |
| 1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)  |                            | 6.  |   | Microfiche Comput  | er Program (A   | Appendix) N         |  |  |  |  |  |
| 2. X Specification [Total Pages (preferred arrangement set forth below)   | 12                         | 7.  | 7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)              |  |   |                     |  |  |  |  |  |
| Descriptive title of the Invention     Cross References to Related Applications   |                            |   | a.  | Compu  | ter Readable  | Сору                |  |  |  |  |  |
| Statement Regarding Fed sponsored R&D     Reference to Microfiche Appendix  |                            |   | b   | Paper (  | Copy (identica  | I to computer copy) |  |  |  |  |  |
| <ul> <li>Background of the Invention</li> <li>Brief Summary of the Invention</li> </ul>   |                            | X   | c. Statement verifying identical of above copie   |  |   |                     |  |  |  |  |  |
| <ul> <li>Brief Description of the Drawings (if filed)</li> <li>Detailed Description</li> </ul>  |                            | ACCOMPANYING APPLICATION PARTS  |   |  |   |                     |  |  |  |  |  |
| <ul><li>Claim(s)</li><li>Abstract of the Disclosure</li></ul>   |                            | 8.  | X Assignment Papers (cover sheet & Documents(s))  |  |   |                     |  |  |  |  |  |
| 3. X Drawing(s) (35 USC d113) [Total Sheets   | 6                          | 9.  |   | 37 CFR §3.73(b) S<br>(when there is an a                 |   | Power of Attorney   |  |  |  |  |  |
| 4. Oath or Declaration [Total Pages]  | 1                          | 10.   | <u></u>   | English Translation                                      |   |                     |  |  |  |  |  |
| a. X Newly Executed (original or copy)  Copy from a prior application (37 CFR §1.63(d   | ))                         | 11.   |   | nformation Disclosure Statement (IDS)/PTO-1449 Citations |   |                     |  |  |  |  |  |
| b. (for continuation/divisional with Box 17 comple  |                            | 12.   |   |  |   |                     |  |  |  |  |  |
| [Note Box 5 below]  |                            | 13.   |   | (Should be specific                                      | turn Receipt Postcard (MPEP 503)  hould be specifically itemized) |                     |  |  |  |  |  |
| i.  DELETION OF INVENTOR(S) Signed statement attached deleting named in the prior application,  | inventor(s)                | 14.   | Small Entity Statement(s)  Statement filed in prior application Status still proper and desired |  |   |                     |  |  |  |  |  |
| see 37 CFR §1.63(d)(2) and 1.33(b)  | ),                         | 15.   | (PTO/SB/09-12) Certified Copy of Priority Document(s) if foreign priority is claimed)           |  |   |                     |  |  |  |  |  |
| 5. Incorporation By Reference (useable if Box 4b is check The entire disclosure of the prior application, from whi  | ch a copy of               | 16.   | Other:  |  |   |                     |  |  |  |  |  |
| the oath or declaration is supplied under Box 4b, is co<br>being part of the disclosure of the accompanying appl  |                            |   |   |  |   |                     |  |  |  |  |  |
| hereby incorporated by reference therein.   |                            | A new statement is required to be entitled to pay small entity lees, except where one has been filed in a prior application and is being relied upon. |   |  |   |                     |  |  |  |  |  |
| 17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:   |                            |   |   |  |   |                     |  |  |  |  |  |
| □Continuation       □Divisional       □Continuation-in-part (CIP)       of prior application No: / .         Prior application information:       Examiner:       □         Group / Art Unit:       □ |                            |   |   |  |   |                     |  |  |  |  |  |
| 18. COR   | 18. CORRESPONDENCE ADDRESS |   |   |  |   |                     |  |  |  |  |  |
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| COUNTRY TELEPHONE   | 972/917                    | 972/917-5646 FAX 972/917-4418   |   |  | 972/917-4418  |                     |  |  |  |  |  |
| Name (Print/Type)  J. Dennis Moore  |                            | Registration No. (Attorney/Agent)   |   |  | 28,885  |                     |  |  |  |  |  |
| Signature   |                            | 7   |   |  | Date  | 3/2/04              |  |  |  |  |  |

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid QMB control number Complete If Known FEE TRANSMITTAL Application Number Patent fees are subject to annual revision on October 1. 03/02/2004 Filing Date These are the fees effective October 1, 2004 First Named Inventor Weibiao Zhang, et al. Small Entity payments must be supported by a small entity **Examiner Name** statement, Art Unit TI-36111 Attorney Docket No. TAL AMOUNT OF PAYMENT **METHOD OF PAYMENT** FEE CALCULATION (continued) The Commissioner is hereby authorized to charge to the 3. **ADDITIONAL FEES** following Deposit Account, Deposit Account Entity Small Entity Large 20-0668 Number Fee Fee Description Fee Paid Code (\$) Code (\$) 1051 130 2051 65 Surcharge - late filing fee Deposit Account Texas Instruments Incorporated Surcharge - late provisional filing fee or 1052 50 2052 25 Name cover sheet. Charge any additional fee Charge all indicated fees and 1053 130 1053 130 Non-English specification required or credit any any additional fee required or overpayment credit any overpayment 1812 2,520 1812 2,520 For filing a request for reexamination 920\* Requesting publication of SIR prior to 1804 1804 920\* **Payment Enclosed:** Examiner action Other Requesting publication of SIR after 1805 1,840 1805 1,840\* Check Money Examiner action Order **FEE CALCULATION** 110 2251 55 Extension for reply within first month 420 2252 210 Extension of time within second month **BASIC FILING FEE** 950 2253 475 Extension of time within third month 1253 Entity Large Small **Entity** 2254 745 Extension of time within fourth month 1254 1,480 Fee Fee Fee Description Fee Paid Fee Fee 2255 Extension of time within fifth month 1255 2.010 1.005 (\$) Code (\$) Code 1401 330 2401 165 Notice of Appeal 1001 770 2001 385 Utility filing fee \$770 1402 330 2402 165 Filing a brief in support of an appeal 1002 340 2002 170 Design filing fee Request for oral hearing 1403 290 2403 145 2003 265 Plant filing fee 1003 530 \$ 1451 1,510 1451 1,510 Petition to institute a pubic use proceeding 1004 770 2004 385 Reissue filing fee \$ 1452 110 2452 55 Petition to revive - unavoidable 1005 160 2005 80 Provisional filing fee \$ 1453 1,330 2453 665 Petition to revive - unintentional SUBTOTAL (1) (\$)7701501 1,330 2501 665 Utility issue fee (or reissue) 1502 480 2502 240 Design issue fee **EXTRA CLAIM FEES** 1503 640 2503 320 Plant issue fee Petitions to the Commissioner 1460 1460 130 130 Fee 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Extra Claims Fee Paid from Submission of Information Disclosure 1806 180 1806 180 below **Total Claims** -20\*\*= 0.00 3 18 8021 40 8021 40 Recording each patent assignment per -3\*\* 86 0.00 Independent 0 X properly (time number of properties) Claims 1809 770 2809 385 Filing a submission after final rejection (37 **Multiple Dependent** CFR 1.129(a)) 2810 385 For each additional invention to be 1810 770 \*\*or number previously paid, if greater; For Reissue, see below **Entity** Small Entity Large Fee Description Fee Fee Fee Fee Code (\$) Code (\$) 1202 18 2202 Claims in excess of 20 Other fee (specify) 1201 86 2201 43 Independent Claims in excess of 3 Multiple dependent claims in excess of 3 1203 290 2203 145 \*\*Reissue independent claims over 86 1204 2204 43 original patent Other fee (specify) 1205 18 2205 \*\*Reissue claims in excess of 20 and over original patent \*Reduced by Basic Filing Fee Paid SUBTOTAL (3) SUBTOTAL (2) 0.00 (\$)0Complete (if applicable) SUBMITTED BY Reg. Number 28,885 J. Dennis Moore Typed or Printed Name Date Deposit Account User ID Signature in Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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